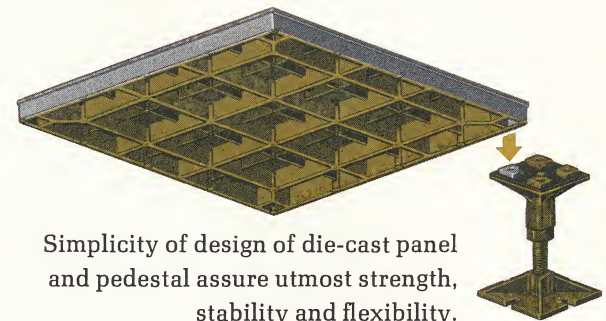




floating floors®

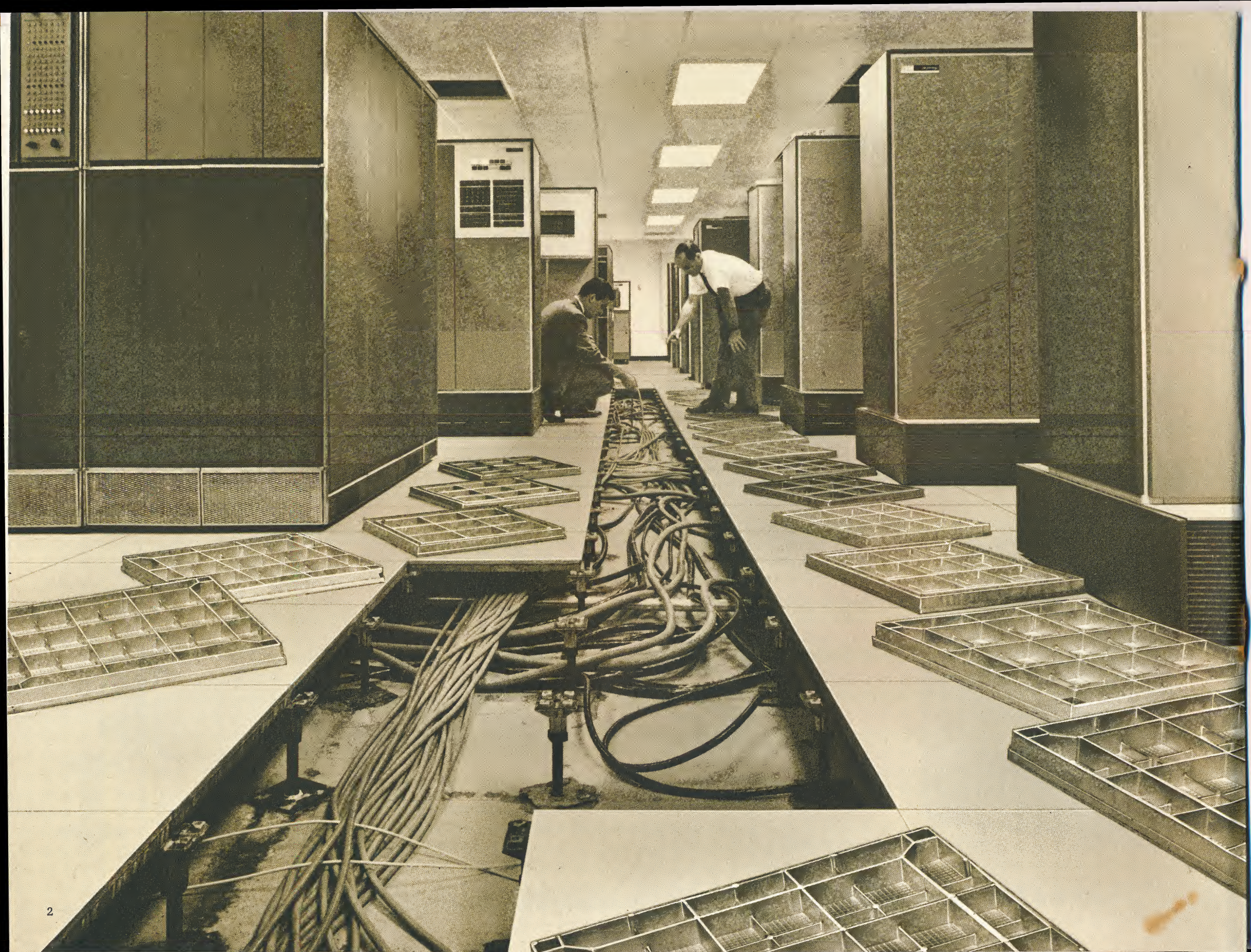
THREE DIMENSIONAL Aluminum Flooring with Infinite Access



Simplicity of design of die-cast panel and pedestal assure utmost strength, stability and flexibility.



floating floors, inc., Subsidiary of National Lead Company, 22 E. 42nd Street, New York, N. Y. 10017



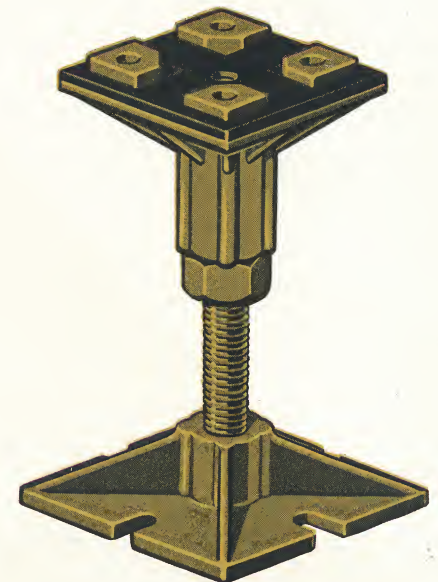
CONTENTS	Plan of Typical Computer Room	Page 4
	Panel and Pedestal Assembly	5
	Spanning a Duct	6
	Treatment at Wall or Column	6
	Perimeter of Depressed Slab Area	6
	Flush Mounted Floor Register	7
	Baseboard Register	7
	Cable Opening	7
	Plenum Divider	7
	Treatment for Steps	8
	Expansion Joints	8
	Ramp and Hand Rail Applications	9
	Specifications	10
	Floor Section	10, 11
	Technical Services	11
	Other Products for Computer Installations	11
	Site Environment System	12

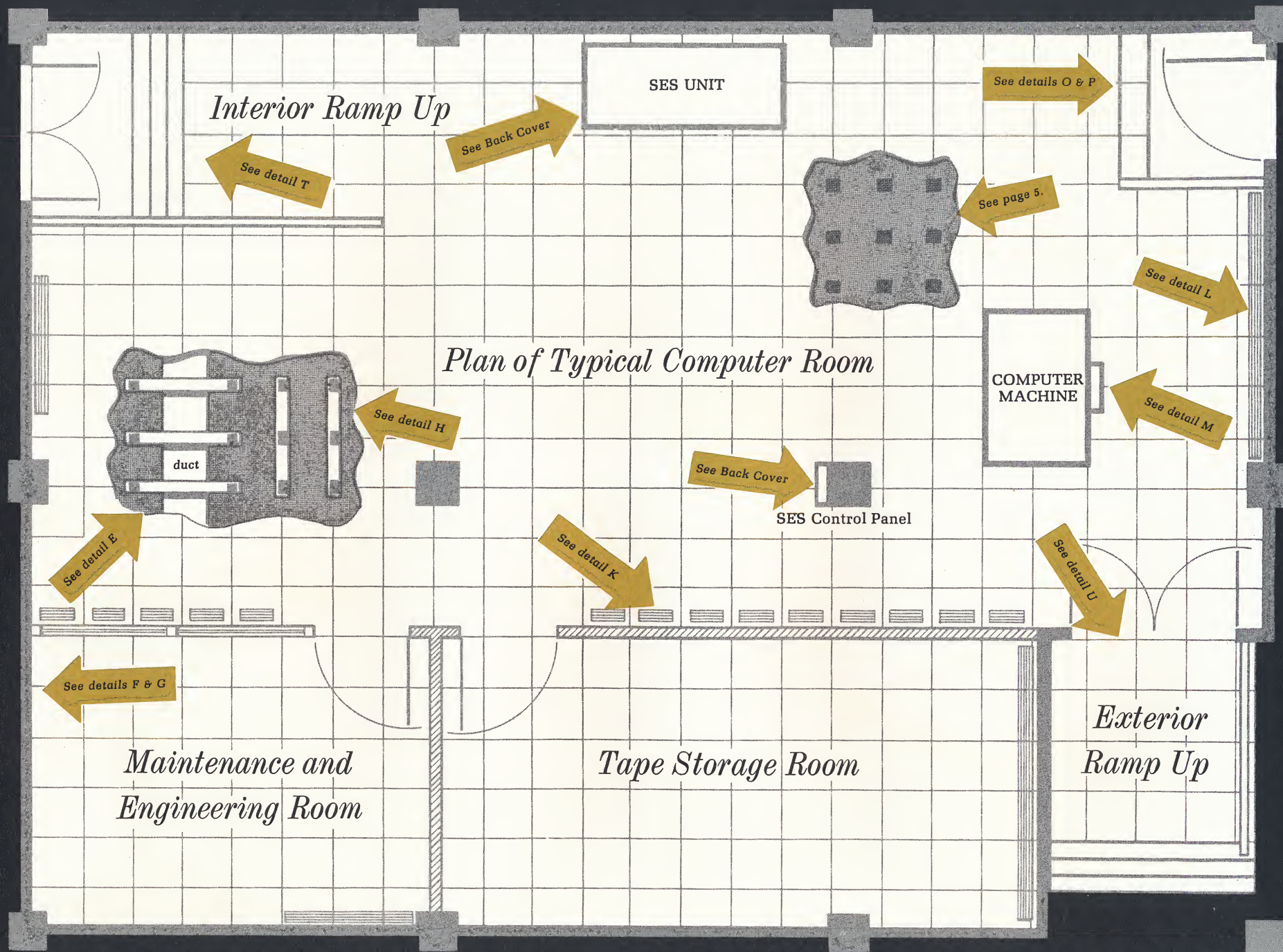
The Design Concept of the Infinite Access Floating Floor

The Floating Floor was originated and developed by our company as the technical solution for an inexpensive and practical method of installing Automatic Data Processing Equipment in buildings used by industry and commerce.

The concept provides clear underneath-space of any desired height, covered with an assembly of removable panels supported by pedestals. Each panel is capable of supporting concentrated loads of 2500 pounds. The pedestal assembly has been tested to 12,500 pounds load without deformation of any part.

A properly installed Floating Floor, with each panel precision made to .003 inch tolerance, creates an ideal air plenum. All panels are interchangeable and removable at any point at any time, with a suction lift tool. The flooring surface is available in vinyl, vinyl asbestos, plastic laminate, wood parquet or carpeting. The entire floor may be taken up and reinstalled elsewhere. Due to unlimited flexibility and low cost, millions of square feet of infinite access floors are being incorporated in the design of telephone exchanges, banking institutions, hospitals, laboratories, government facilities, high-rise office or apartment buildings, and numerous industrial applications.





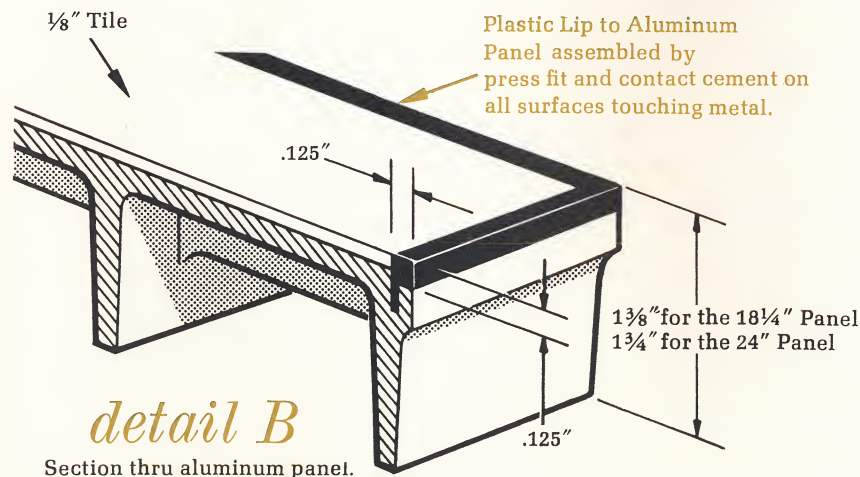
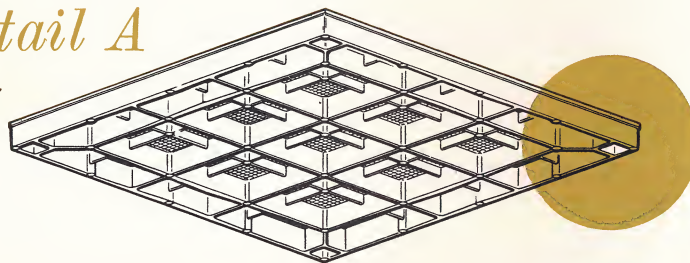
AT LEFT is a typical plan of a total site computer area. Into this layout can be fitted the arrangement and location of whatever computer equipment is necessary. Thanks to the fact that Floating Floors possess unlimited flexibility, rearrangements and system expansions are readily accommodated.

Shown are the general details that all computer areas require. All elements of the plan are identified, and cross-referenced to the architectural and engineering detail drawings and specifications found in the following pages.

detail A

F2M-L-18 $\frac{1}{4}$ " x 18 $\frac{1}{4}$ "

F24M-L-24" x 24"



detail B

Section thru aluminum panel.

Panel and Pedestal Assembly

BELOW are details for the aluminum precision die-cast floor panels and pedestals. Both are cast under high pressure in a "one-shot" operation, producing simple, complete, uniform manufactured units. Since they are cast from the same die, all panels and pedestals are identical and interchangeable with one another. Since they are all aluminum, no upkeep or maintenance is required. The assembly is very light in weight, yet rugged and strong.

The pedestal, in particular, is unique in the industry. Both the head and the base are homogeneous castings, with integral aluminum fins to distribute and spread the weight to the sub-floor.

Panels and pedestals for Floating Floors, Inc. are manufactured by the Doehler-Jarvis Division of National Lead Company, the international leader in high-pressure die-casting, maintaining the world's largest die-casting operation.

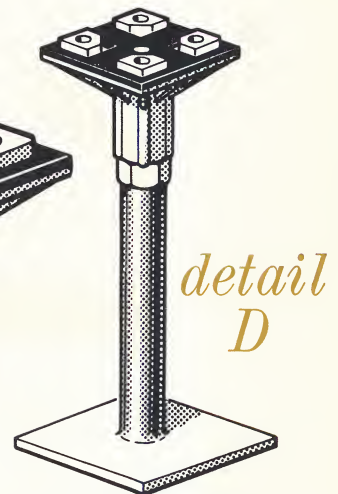
The Original Aluminum Pedestal Head with interlocking bosses to panel.

Male bosses on the head provide positive interlocking of panel and pedestal to prevent lateral shifting. Approved for seismic conditions.

Grounding pad.

detail C

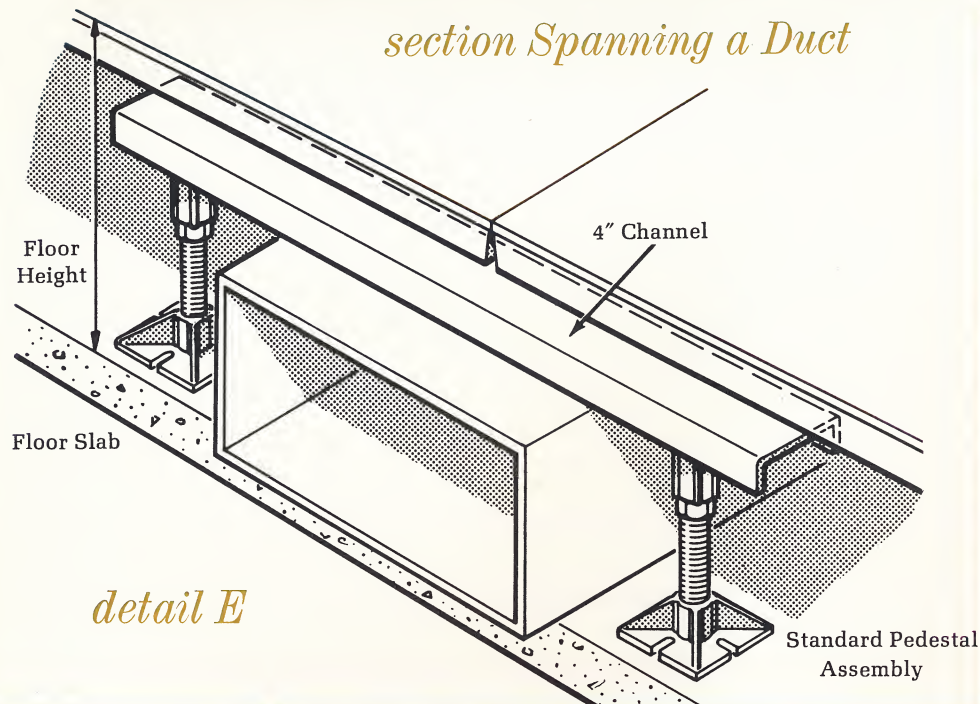
$\frac{3}{4}$ " Threaded Rod Pedestal on 4" x 4" standard die-cast base for floor heights to 14"



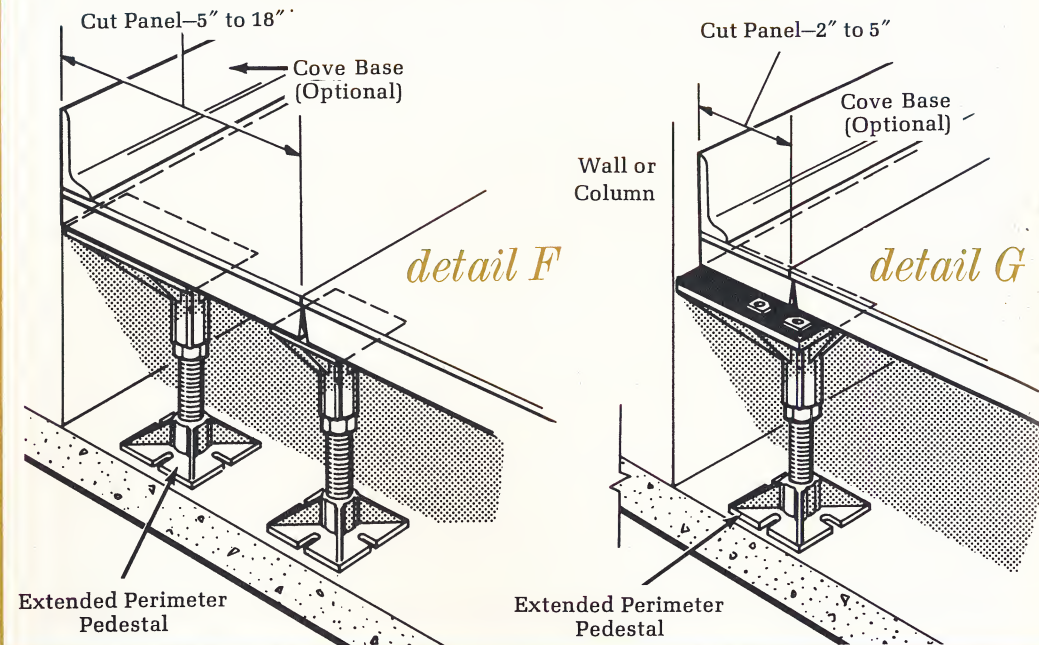
1" std. wt. Pipe Pedestal on 6" x 6" or 8" x 8" steel base for floor heights over 14".

Floating Floors Exclusive Aluminum Base
Note the method used to distribute the load.

section Spanning a Duct

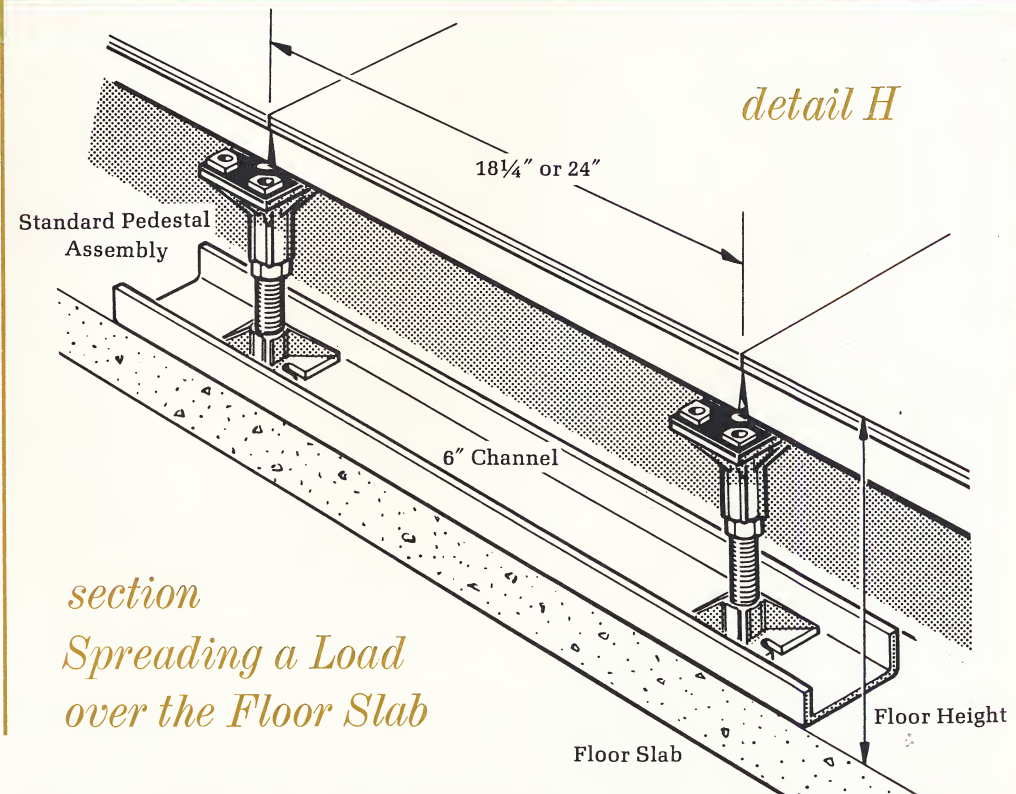
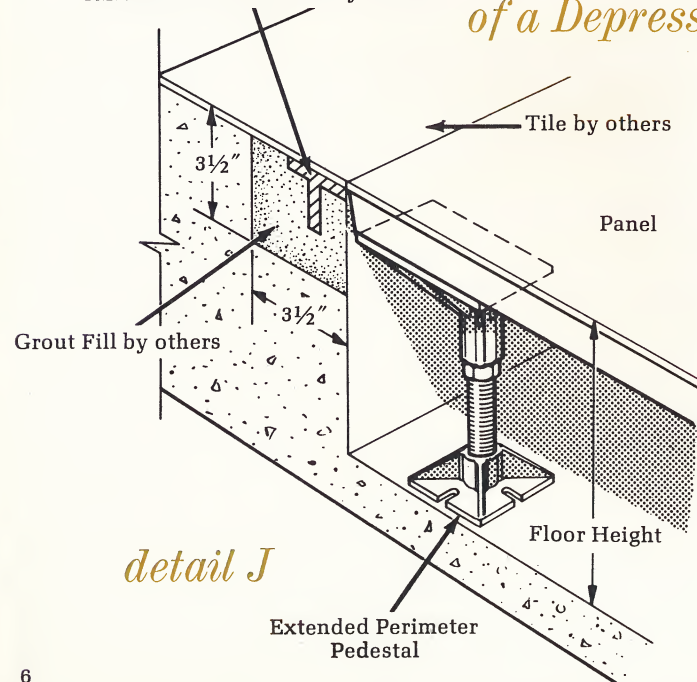


section at a Wall or Column

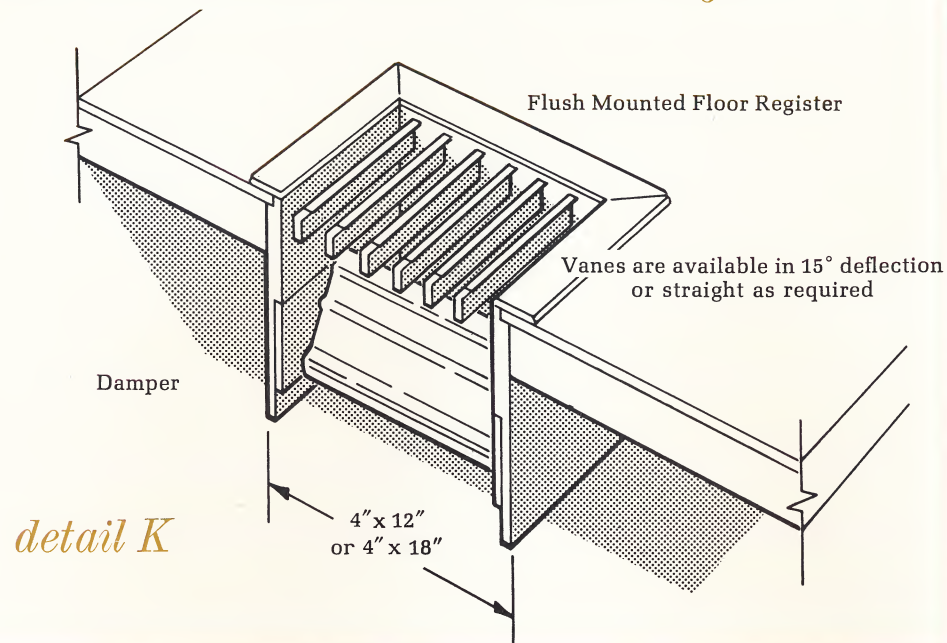


Aluminum Alloy 6061-T6
Structural Tee 2" x 2" x 1/4"
furnished and installed by others.

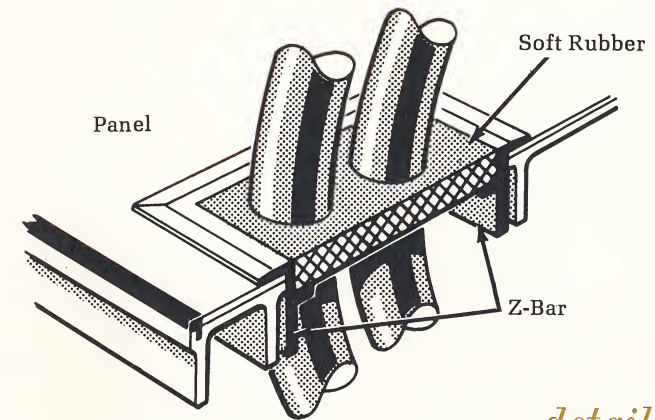
section at the perimeter of a Depressed Slab Area



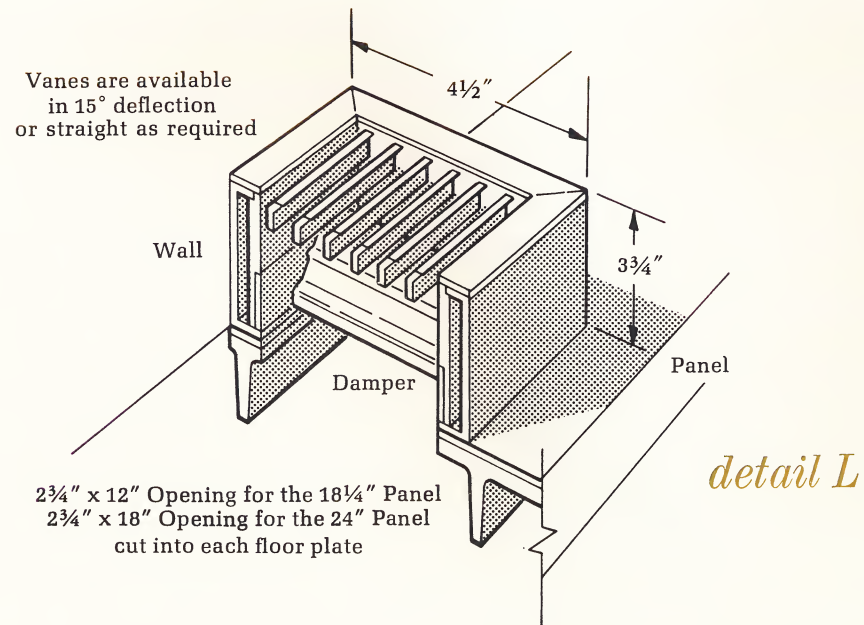
section thru Flushed Mounted Floor Register



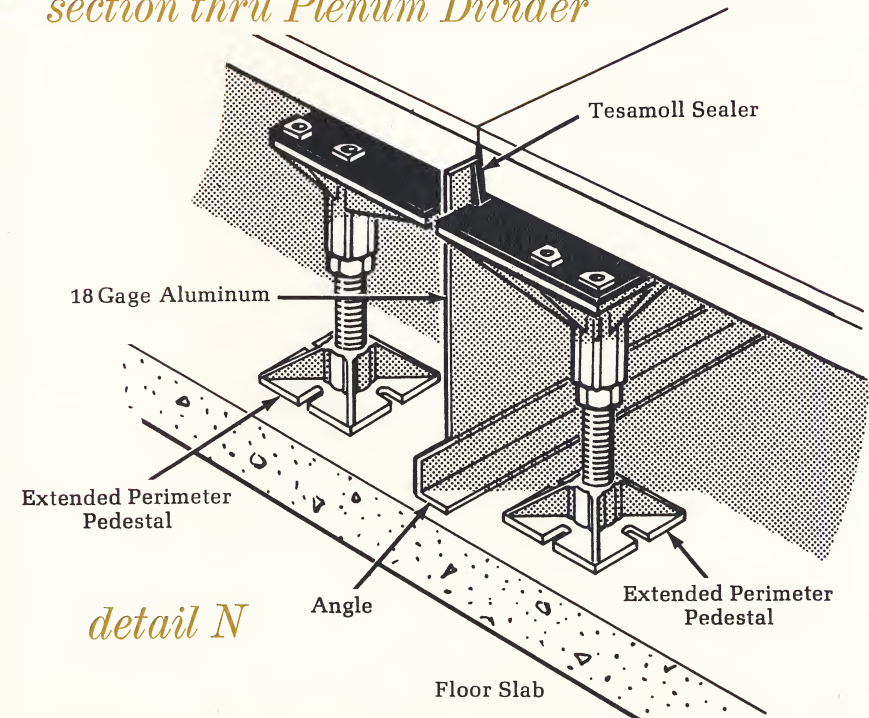
section thru Cable Opening



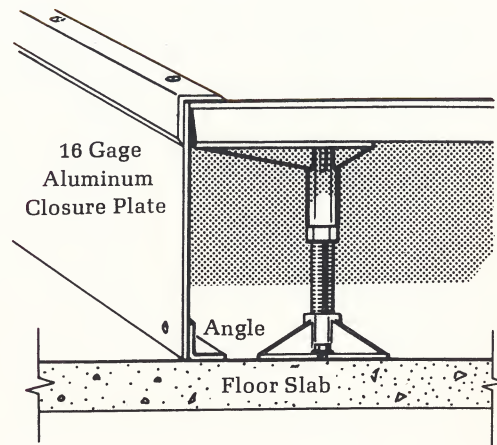
section thru Baseboard Register



section thru Plenum Divider

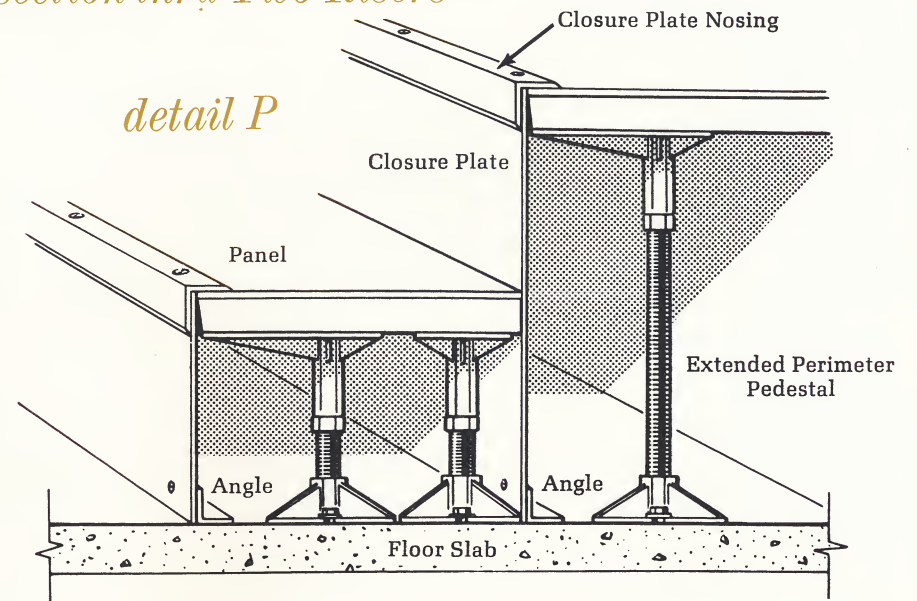


section thru One Riser



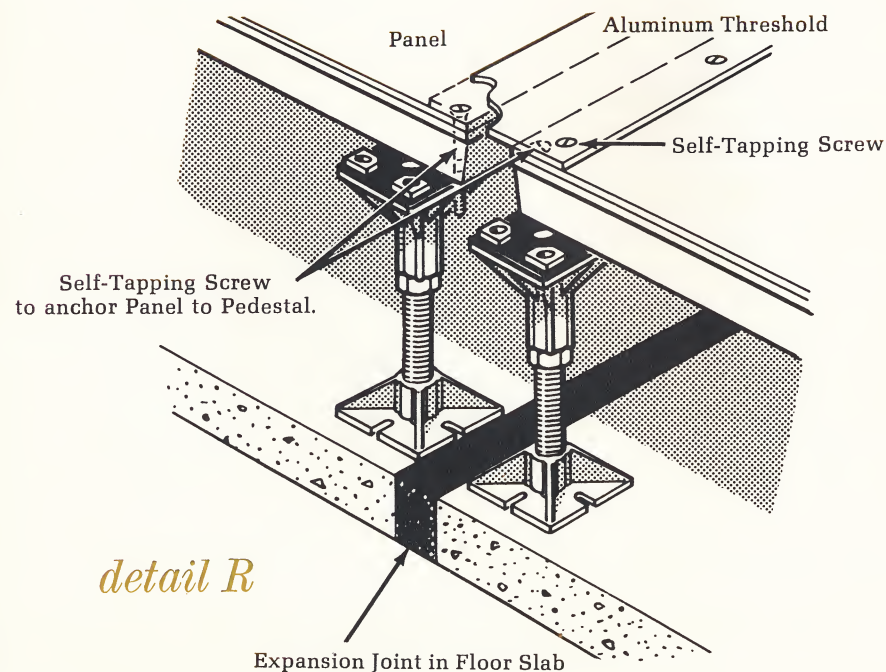
detail O

section thru Two Risers



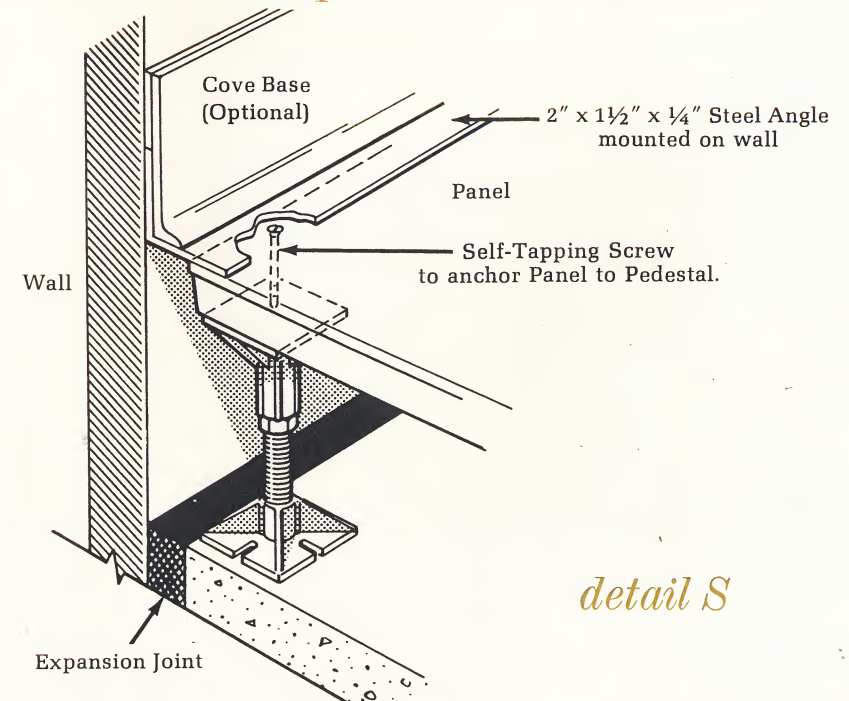
detail P

section thru an Expansion Joint



detail R

section thru an Expansion Joint at a Wall



detail S

Typical Panel Ramp Section and Hand Rail Applications

STANDARD RAMP LENGTHS FOR 24" x 24" PANEL

HEIGHT OF FLOOR	LENGTH OF RAMP	NO. OF 1240 PANELS	LENGTH OF CHANNEL
6"	5'-6"	2	38"
7"	7'-6"	3	62"
8"	7'-6"	3	62"
9"	9'-6"	4	86"
10"	9'-6"	4	86"
11"	11'-6"	5	110"
12"	11'-6"	5	110"
13"	13'-6"	6	134"
14"	13'-6"	6	134"

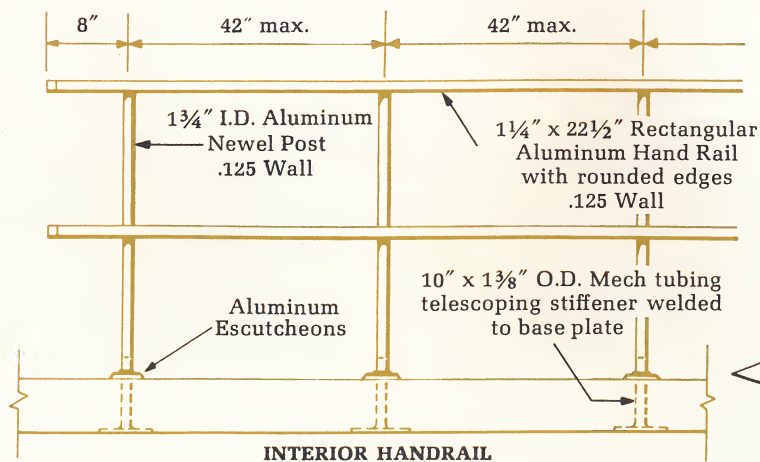
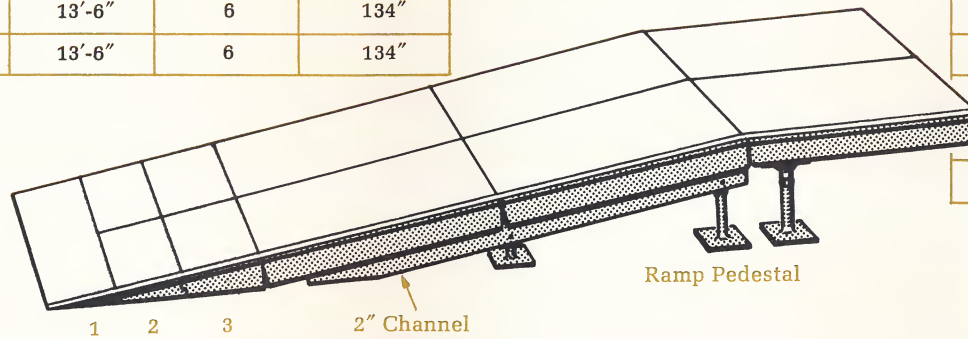
STANDARD RAMP LENGTHS FOR 18½" x 18½" PANEL

HEIGHT OF FLOOR	LENGTH OF RAMP	NO. OF 1180 PANELS	LENGTH OF CHANNEL
5" TO 6"	5'-7"	3	38½"
6"	6'-0¾"	3	38½"
7"	7'-1¼"	4	56¾"
7" TO 8"	7'-7"	4	56¾"
8" TO 9"	8'-7½"	5	75"
9"	9'-1¼"	5	75"
10"	10'-1¾"	6	93¼"
10" TO 11"	10'-7¼"	6	93¼"
11" TO 12"	11'-8"	7	111½"
12"	12'-1¾"	7	111½"
13"	13'-2¼"	8	129¾"
13" TO 14"	13'-8"	8	129¾"

detail T

Interior Ramp

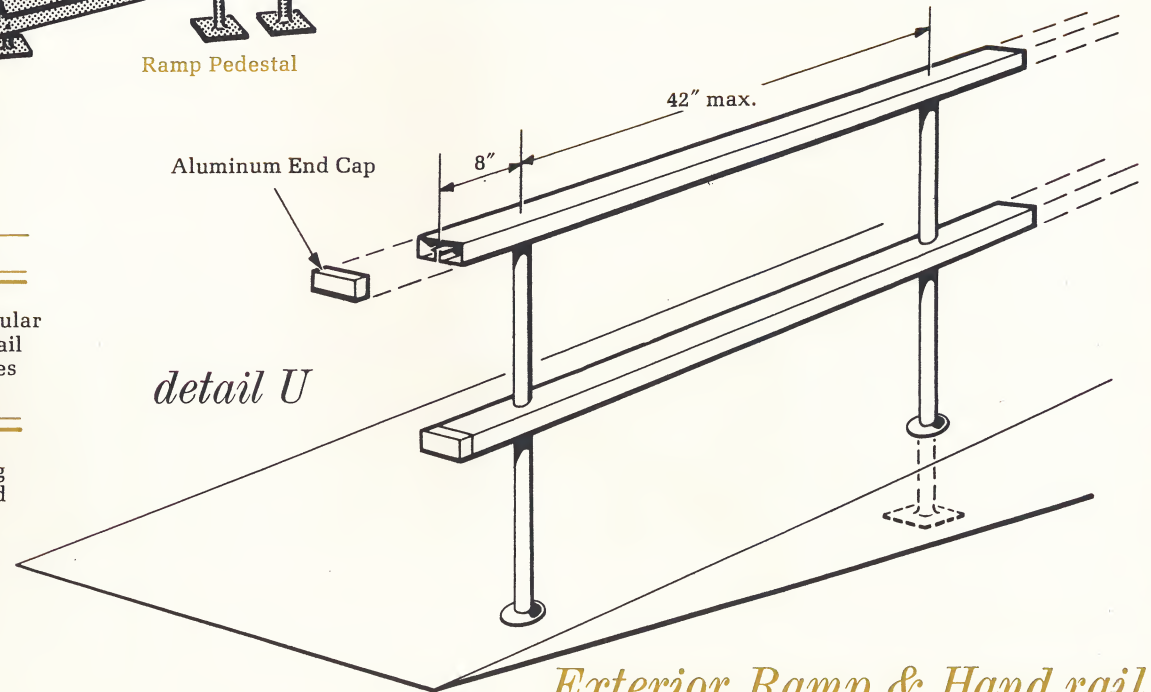
Nosing Pcs. 1, 2, 3,



Ramp Pedestal

Aluminum End Cap

detail U



Floating Floors® Specifications

.01 GENERAL

- (a) The removable free access "floating floor" system shall consist of an assembly of panels mounted on adjustable pedestals to provide an under-floor space for the accommodation of electrical conduit, mechanical service lines and, when required, to serve as an air supply or return plenum.
- (b) Finished floor surface to be smooth and uniform with all panels out of wind. Completed floor system shall be rigid, free of vibration and rocking panels.

.02 PERFORMANCE

- (a) Panels, when in place and functioning as part of the completed floor system, shall be capable of supporting a concentrated load of 1,000 lbs. on one square inch with deflection of .08 inches. The load safety factor on one square inch is 2,500 lbs. The floor shall be capable of carrying a uniform live load of 250 lbs. per square foot with a deflection of not more than .040 inches.
- (b) All panels shall be completely interchangeable and easily removable with a suction lift tool. Panels shall be square to within a machine tolerance of plus .005 inches.
- (c) Pedestal assembly shall be capable of supporting a minimum load of 5,000 lbs. with a safety factor of 2½. The leveling and locking device shall permit total vertical adjustment of 1½ inches. Pedestal base, when adhered to concrete base floor in an approved manner, shall withstand a moment of 2500 inch-lbs.
- (d) Floor system to be laterally stable in all directions with panels in place or removed.
N.B. For seismic zone applications, standard floor system will be certified by licensed state engineer in the area of application to conform to regulatory approvals.
- (e) Components to have positive contact for safe, continuous grounding of entire system. Spring clips or other mechanical devices are not permitted.
- (f) Caster mounted equipment within load limits to roll easily throughout the entire floor area.
- (g) The finished floor height to be inches, measured from slab or other base.
- (h) Completed floor system dead load shall not exceed 6-lbs. per square foot, not including weight of floor covering material.

.03 PANELS

- (a) The panels shall be 18¼" x 18¼" (Model F2M) or 24" x 24" (Model F24M) aluminum die cast construction, edge machined after casting to a tolerance of plus .005 inches, with ½ inch plastic lip pressure

inserted and fastened with adhesive into machined recess in each panel edge for protection of floor covering materials. Underside of panel, at each corner, to have integrally cast female socket mount to provide for an interlocking male boss which is part of pedestal head to assure lateral stability. Aluminum alloy to conform to Federal Specifications QQ-A-591d-A380.

- (b) Panel surface to permit the use of contemporary floor covering materials and to be compatible with their approved adhesives.

.04 PEDESTALS

- (a) To be of height shown and vertically true, located on centers to conform with size of panels, with locking device to prevent loss of finished elevation. Base of pedestal to consist of aluminum die cast member 4" x 4", formed with integral load dispersal fins to transmit load evenly to base floor. Adjustment of pedestal to be through threaded rod member and the use of an elevating nut. The pedestal head, of aluminum die cast construction, is to have four (4) raised male bosses to interlock to underside corners of panels to prevent lateral shifting. Pedestal head to be equipped with conductive vinyl grounding pad. Up to 14 inch floor height, the supporting member to consist of ¾" threaded rod. Floor heights of 14 inches and over to use 1 inch threaded Schedule 40 pipe.

.05 FLOOR COVERING MATERIAL

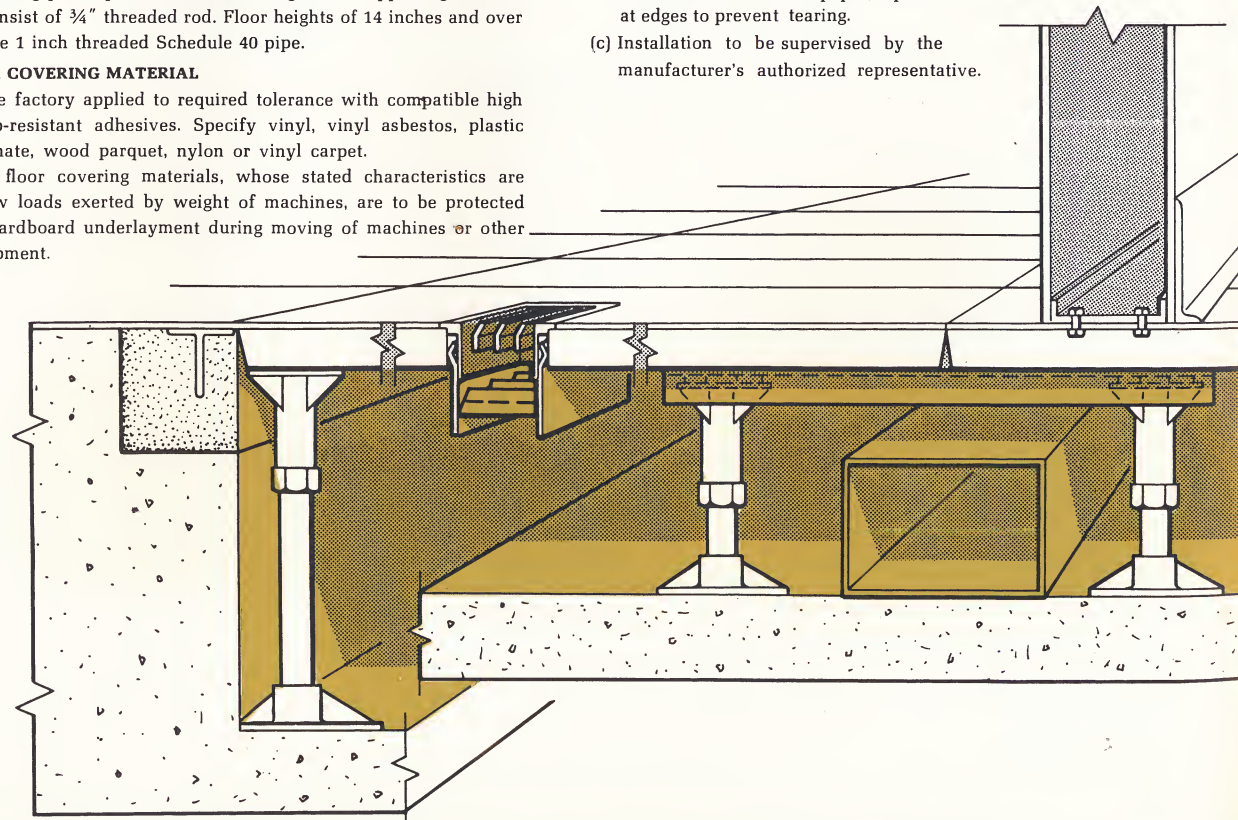
- (a) To be factory applied to required tolerance with compatible high creep-resistant adhesives. Specify vinyl, vinyl asbestos, plastic laminate, wood parquet, nylon or vinyl carpet. Any floor covering materials, whose stated characteristics are below loads exerted by weight of machines, are to be protected by hardboard underlayment during moving of machines or other equipment.

.06 ACCESSORIES

- (a) Ramps to be furnished as shown or of prefabricated construction when specified. Structural characteristics to be equal to "floating floors" area.
- (b) Furnish and install steps, step wells and platforms as indicated on drawings with treads to match floor areas.
- (c) Railing to be of aluminum post-and-rail-type, of length and arrangement as indicated.
- (d) Furnish extruded aluminum closure plate at perimeter and locations indicated to enclose exposed edge of "floating floor."
- (e) Furnish rubber cove base as indicated.
- (f) Air outlet grilles: Refer to mechanical specifications for quantity and type.
- (g) Cutouts: Cable cutout kits as required.
- (h) Provide spare panels and pedestal assemblies.

.07 INSTALLATION

- (a) Installation area to be free and clear of other trades at time of installation to permit the taking of accurate elevations of entire area.
- (b) Finished floor surface, when specified, to be protected by application of 20-lb. sisal kraft paper, taped and sealed at edges to prevent tearing.
- (c) Installation to be supervised by the manufacturer's authorized representative.



Technical Services Available to Architects

Floating Floors, Inc. is prepared to render services of great variety and scope to aid architects, engineers and interior designers in the planning and construction of computer centers. We have completed hundreds of computer facilities, and can offer engineering and field-erection experience that can be of great usefulness.

Some of our specific capabilities lie in the following areas:

Site selection for the computer and assistance in preliminary plans.

Selection of equipment for temperature, humidity and air filtration controls.

Modular planning for original equipment and system additions.

Construction value analysis and preliminary budgeting studies.

"Turnkey" construction as desired, or to the extent specified.

Floating Floors, Inc., as a part of National Lead Company, can provide additional services in related areas, with correlated research and development facilities that can be placed at the architect's service.

With substantial financial resources, Floating Floors, Inc. is capable of offering special arrangements and accommodations, including a new leasing plan covering complete installations of Floating Floors and Site Environment System units, described on the back cover.

Floating Floors are manufactured by subsidiary companies or licensees in Canada, England, Italy, France and West Germany.

Other Products for Computer Installations

SES UNITS

Specifically designed self-contained air conditioning units for environmental control of data processing areas are available in modular sizes and various capacities. See back cover for further description.

STEEL PANEL

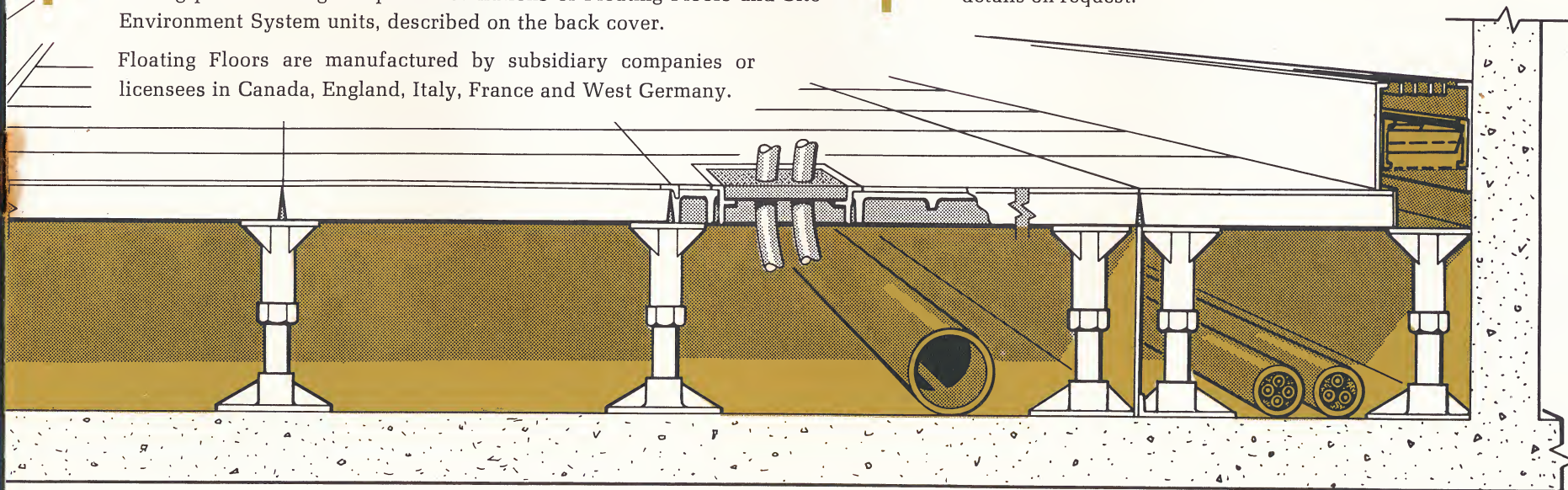
Floating Floors, Inc. also provides steel panels for installations where economy of construction is a governing factor. There is a necessary sacrifice in dead weight, and in maintenance, but there is no compromise in strength, stability and performance. Full details on request.

REDI-WAY

When above-floor electrical services are necessary, Floating Floors, Inc. supplies REDI-WAY floor-surface cable ducts in walk-over or box type, containing separate troughs for power wiring and signal wiring.

SHEEN

Because data processing equipment is highly sensitive to dirt and wax particles, Floating Floors, Inc. has developed SHEEN, a revolutionary coating for data processing floors that makes old methods of waxing and polishing obsolete. SHEEN deposits a protective coating on the floor surface that is harder than wax, and will not flake, streak or yellow. Full details on request.



SES[®] Site Environment System

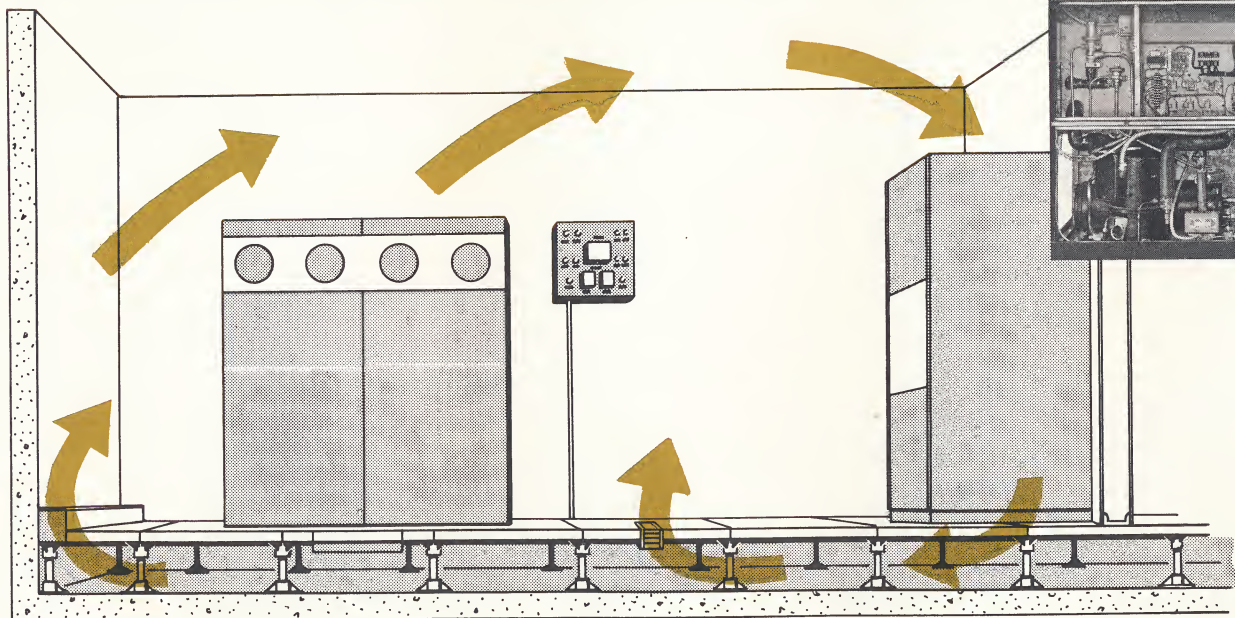
A simplified, complete, modular and low cost means of producing the total environment required for operation of data processing equipment. Pre-wired, pre-piped, requires no duct work, since it utilizes the Floating Floor as an air plenum. Choice of cooling systems—D-X water cooled, D-X air cooled or chilled water. Temperature control employs dual refrigerant cycle in six-row copper coil, with high sensible heat capacity. Built-in dehumidification, re-heat and vapor humidifier provide positive humidity control. Air filtration includes pre-filter, prime filter and filter clog indicator. Continuing, uninterrupted operation assured by two complete systems of heavy duty design, one serving as built-in standby. Expansion of system may be accomplished without shutdown by adding units as "building blocks." Standard components, stainless wetted surfaces and total accessibility add up to low maintenance cost. Available in two models, for use singly or in combinations as required:

MODEL 6 A — 84,470 net BTU — 3,350 CFM — 62.2 Amp. — 208 volts.

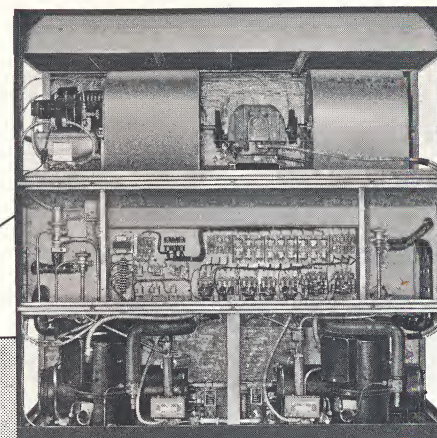
MODEL 8 A — 120,050 net BTU — 4,450 CFM — 79.6 Amp. — 208 volts.

Engineering data available on request.

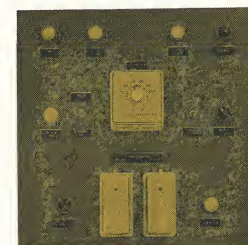
TYPICAL AIR FLOW DIAGRAM USING "FLOATING FLOOR" PLENUM AND "SES" UNIT



CONTROL PANEL separately mounted in strategic location—24 Volt, one for each unit. Has system indicating lights, compressor alternating switch, filter clog warning light. Dual humidistats and thermostat control.



FRONT VIEW
(Cover removed)



CONTROL PANEL



Color-Matched to Computer Colors



floating floors, inc., Subsidiary of National Lead Company, 22 E. 42nd Street, New York, N.Y. 10017